

WHAT IS CLAIMED IS:

1. A clip manipulating device comprising:  
a flexible insertion tube capable of being  
inserted into a cavity of a living body;

5 a flexible wire having pliability and movably  
passed through the insertion tube;

a junction provided on the distal end portion of  
the wire, detachably coupled with a clip located at the  
distal end portion of the insertion tube, and pliable  
10 enough to follow up deformation of the insertion tube.

2. A clip manipulating device according to  
claim 1, wherein the junction has a looped portion  
formed by turning the wire, the looped being coupled  
with the clip.

15 3. A clip manipulating device according to  
claim 1, wherein the wire has a turn portion coupled to  
the clip and a weak portion formed of at least parts of  
doubled wire portions on two opposite sides and  
intertwined so as to loosen when the wire is hauled  
20 with a tractive effort great enough to leave the clip.

4. A clip manipulating device according to  
claim 1, wherein the junction has a weak portion which  
breaks when the wire is hauled with a tractive effort  
great enough to leave the clip.

25 5. A clip manipulating device comprising:  
a flexible insertion tube capable of being  
inserted into a cavity of a living body;

a flexible wire having pliability and movably passed through the insertion tube;

a clip located at the distal end portion of the insertion tube and having a hook; and

5 a junction provided on the distal end portion of the wire, detachably coupled with the hook of the clip, and pliable enough to follow up deformation of the insertion tube.

6. A clip manipulating device according to  
10 claim 5, wherein the clip is provided with a clip retainer pipe which covers the proximal end portion of the clip when the wire is hauled, whereby the clip is manipulated, the retainer pipe covering the hook when the hook is deformed so that the hook is disengaged  
15 from the wire.

7. A clip manipulating device according to claim 1, which comprises a clip setting portion which is provided on the distal end of the insertion tube detachably stores the clip, and controls the clip in  
20 open-close action and plastic deformation as the wire is manipulated.

8. A clip manipulating device according to claim 7, wherein the clip setting portion has a slit through which the clip gets away after the clip is  
25 plastically deformed.

9. A clip manipulating device comprising:  
flexible insertion means capable of being inserted

into a cavity of a living body; and

elongate means which is passed through the  
insertion means for advance and retreat, can move with  
respect to the insertion means so as to be detachably  
5 coupled to a clip located at the distal end portion of  
the insertion means, is not less pliable than enough to  
follow up deformation of the insertion means, and  
effects grasping operation and disengaging operation of  
the clip.

10 10. A clip manipulating device according to  
claim 9, wherein the elongate means has a flexible  
wire.

11. A clip manipulating device comprising:  
a flexible insertion tube capable of being  
15 inserted into a cavity of a living body;

a manipulating member which is passed through the  
insertion tube for advance and retreat and moves with  
respect to the insertion tube, thereby effecting  
grasping operation and disengaging operation of a clip  
20 located at the distal end portion of the insertion  
tube; and

a flexible connecting member having one end and  
the other end, the one end being coupled to the distal  
end of the manipulating member and the other end  
25 detachably coupled to the clip, and pliable enough to  
follow up deformation of the insertion tube.

12. A clip manipulating device according to

claim 11, wherein the connecting member has a flexible wire and a junction provided on the distal end portion of the wire, detachably coupled to the clip, and pliable enough to follow up deformation of the insertion tube.

13. A clip manipulating device according to claim 12, wherein the junction is formed of the wire and has a weak portion at which the wire breaks when the manipulating member is hauled with a tractive effort great enough to leave the clip.

14. A clip manipulating device according to claim 12, wherein the wire has a turn portion coupled to the clip and a weak portion formed of at least parts of doubled wire portions on two opposite sides and intertwined so as to loosen when the manipulating member is hauled.

15. A clip manipulating device comprising:  
a flexible insertion tube capable of being inserted into a cavity of a living body;

a manipulating member which is passed through the insertion tube for movement and is moved with respect to the insertion tube, thereby effecting gasping operation and disengaging operation of a clip located at the distal end portion of the insertion means; and

a coupling member which is provided on the distal end of the manipulating member, is coupled to a wire extending from the clip and pliable enough to follow up

deformation of the insertion tube, effects grasping operation of the clip, and can leave the clip when the manipulating member is hauled with a tractive effort great enough to leave the clip.

5           16. A clip manipulating device according to claim 1, which comprises a flexible tube sheath penetrated by the insertion tube for advance and retreat, the tube sheath being capable of storing the clip located at the distal end portion of the insertion  
10 tube.

          17. A clip manipulating device according to claim 16, wherein that part of the insertion tube which is situated behind the clip and exposed from the distal end of the tube sheath when the clip projects from the  
15 tube sheath forms a curvedly raised portion.